

Bachelor of Science- Electrical Engineering

McCoy School of Engineering

2025-2026

Freshman Year –

Grade	Fall – 15 hours	Grade	Spring – 14 hours
	Calculus 1 (4) MATH 1634 Pre-req: MATH 1534 or 1433 with a “C” better		Calculus 2 (4) MATH 1734 Pre-req: MATH 1634 with a “C” or better
	Introduction to Engineering (1) EENG 1101 ** Pre-req: None		Creative Arts (3) Core
	Cultural & Global Understanding (3) CORE		Engineering Economics (3) EENG 1123 Pre-req: MATH 1233
	University Physics I (4) PHYS 1624 Co-req: MATH 1634		University Physics 2 (4) PHYS 2644 Co-req: MATH 1734; Pre-req: PHYS 1624
	Academic Research & Writing (3) ENGL 1143 Pre-req: Appropriate TSI, ACT, or SAT test scores		

Sophomore Year

Grade	Fall – 16 hours	Grade	Spring- 15 hours
	Calculus 3 (4) MATH 2534 Pre-req: MATH 1734 with a “C” or better		Engineering Computation (2) EENG 2212 Pre-req: MATH 1634
	Electric Circuits (4) EENG 2104 Pre-req: PHYS 2644		Electronics (4) EENG 2204 Pre-req: EENG 2104
	Computer Science I (4) CMPS 1044 Pre-req: MATH 1233 or co-req		Differential Equations (3) MATH 3433 Pre-req: MATH 1734 with a “C” or better
	General Chemistry I (3) CHEM 1143 Co-req: MATH 1233 or MATH 1534		CORE Communications (3) ENGL 1153, 2123, 2203, MCOM 2243, 2403, SPCH 1133, SPCH 2423
	General Chemistry Lab I (1) CHEM 1141 Co-req: CHEM 1143		Data Structures and ADT (3) CMPS 1063 Pre-req: CMPS 1044

Junior Year

Grade	Fall – 16 hours	Grade	Spring – 16 hours
	Fundamentals of Robotics (3) EENG 3273 Pre-req: EENG 2212 & EENG 2104 FALL		Digital Signal Processing (4) EENG 3204 Pre-req: CMPS 1063 & EENG 2212 SPR
	Measurements & Instrumentation (3) EENG 3123 Pre-req: EENG 2204 & MATH 3433 SUM/FALL		Linear Algebra (3) MATH 2753 Pre-req: MATH 1634 with a “C” or better
	Probability & Statistics (3) STAT 3573 Pre-req: MATH 1233 or 1534		Integrated Circuit Design (4) EENG 3154 Pre-req: EENG 2204 SPR
	Technical Writing (3) ENGL 3203 Pre-req: ENGL 1143 & Communications core		Language, Philosophy, & Culture (3) Core PHIL 2033
	American History I (3) Core HIST 1133		American History II (3) Core HIST 1233

Senior Year

Grade	Fall – 16 hours	Grade	Spring – 12 hours
	Embedded & Real-Time Systems (4) EENG 4124 Pre-req: EENG 3154 FALL		Electrical Power Design (3) EENG 4223 Pre-req: EENG 3273 SPR
	Senior Design 1 (3) EENG 4173 Pre-req: all 3000 level classes FALL		Senior Design 2 (3) EENG 4283 Pre-req: EENG 4173 SPR
	Programmable Logic Controls (3) EENG 4163 Pre-req: EENG 3273 FALL		Control Systems Analysis (3) EENG 4263 Pre-req: MATH 3433 & EENG 3273 SPR
	American Government I (3) Core POLS 1333		American Government II (3) Core POLS 1433
	Social Behavioral Science (3) Core		

Total: 120 hours

CORE

Communications: ENGL 1143 + communications

Life & Physical Sciences: PHYS 1624/2644

Math: MATH 1634

Language, Philosophy, and Culture: PHIL 2033

Creative Arts: see core options in catalog

Social Behavioral Science: see core options in catalog

American History: HIST 1133/1233

Political Science: POLS 1333/1433

Cultural & Global Understanding: see core options in catalog

Inquiry & Creativity: CMPS 1044